

MILITARY ETHERNET SOLUTIONS



milsource

TECHAYA
RUGGED DESIGN

NEW PRODUCTS

MILTECH 9124 (AVAILABLE BY YEAR-END)

DESCRIPTION

- Managed 24-Port triple-speed (10/100/1000Mbps) Ethernet Router/Switch
- L2/L3 network switching and routing capabilities
 - virtual LANS (VLANS), traffic prioritization (QoS), bandwidth aggregation, dynamic routing (RIPV1,V2,OSPF V2/V3, Multicast Routing, VRRP, ECMP Routing) and full IPv6 support
- MIL-STD-810 and MIL-STD461 in a suitable enclosure

UNIQUE ATTRIBUTES

- SMALL 2.55' x 3.55"
- Board-to-board connectors for easy addition to embedded communications platforms
- Conformally coated



APPLICATIONS

- Plug-in module for embedded communications platforms
- Connecting dozens of network devices including communications and navigation systems, IP-based sensors, video cameras and targeting systems
- UAV, Avionic, mobile ground stations

MILTECH 9128 (AVAILABLE YEAR-END)

DESCRIPTION

- Managed 24 triple-speed (10/100/1000Mbps) + four 10 GbE Port Ethernet Router/Switch
- L2/L3 network switching and routing capabilities
 - virtual LANS (VLANS), traffic prioritization (QoS), bandwidth aggregation, dynamic routing (RIPv1,V2,OSPF V2/V3, Multicast Routing, VRRP, ECMP Routing) and full IPv6 support
- MIL-STD-810 and MIL-STD461 in a suitable enclosure

UNIQUE ATTRIBUTES

- SMALL 3.55' x 3.55"
- Board-to-board connectors for easy addition to embedded communications platforms
- Conformally coated



APPLICATIONS

- Plug-in module for embedded communications platforms
- complex traffic management of advanced optics with ultra-high megapixel resolution
- rugged manned and unmanned military and civilian mobile, tactical, airborne vehicle platforms

FIRMWARE UPGRADE: MT 904, 912, 918, 919

- Layer 2 Switching
 - IP subnet-based VLANs
 - Multiple spanning tree instances on a single link
 - BPDU guard and restricted roles
 - Snooping and filtering functions including IGMPv2, IGMPv3, MLDv1, IGMP and DCH
- Layer 3 Switching
 - IPv4 and IPv6 static routing
- Security
 - Central AAA via TACACS or RADIUS
 - 15 levels of authorization for multiple users
- Synchronization
 - NTPv4 allows switch to be a client on an NTP server
- Management
 - DHCP server allows it to be it's own DHCP
 - SSHv2 support
 - IPv6 Management
 - SNMPv1/v2c/v3 Agent upgrade to support V3 or higher security
- Available NOW



ROADMAP UPDATE: MILTECH ~~M64~~ M65

DESCRIPTION

- Small, rugged, IP 68 rated portable local storage drive
- Secure erase via external GPIO
- Read/write indication via external GPIO
- Optional internal battery to support self-powered secure erase
- Amphenol 805 series, 10 pin circular connector
- Dual 32GB SD cards in RAID 0 for increased speed
- ~~64~~ 256 Gb Capacity
- Available Q2 2016



UNIQUE ATTRIBUTES

- Only such device on the market
- MILSTD 810

APPLICATIONS

- Rugged computers
- Navigation devices
- Communications systems
- Defense systems/missiles
- Combat vehicles, avionics, shipboard systems

ESTABLISHED PRODUCTS

MILTECH M64

DESCRIPTION

- Small, rugged, IP 68 rated portable local storage drive
- Secure erase via external GPIO
- Read/write indication via external GPIO
- Optional internal battery to support self-powered secure erase
- Amphenol 805 series, 10 pin circular connector
- Dual 32GB SD cards in RAID 0 for increased speed
- 64 Gb Capacity

UNIQUE ATTRIBUTES

- Only such device on the market
- MILSTD 810



APPLICATIONS

- Rugged computers
- Navigation devices
- Communications systems
- Defense systems/missiles
- Combat vehicles, avionics, shipboard systems

MILTECH 306 & 406

DESCRIPTION

- Ultra-compact
- Multi-protocol device/hub
- 306: 7+1 USB hub
- 406: Combination of Ethernet, USB hub and, Serial and SM-BUS ports in one device



UNIQUE ATTRIBUTES

- Easily configurable with unique combination of ports for specific application
- 406 can convert Ethernet to USB, Serial to USB and SMBus to USB
- Lightweight, small form factor

APPLICATIONS

- Soldier carry
- Radios, night vision goggle, handheld PC

MILTECH 304/308

DESCRIPTION

- Ultra-compact unmanaged, Fast Ethernet
- 8 ports 10/100 Base T
- IP68, MIL-STD-810F/G/M, 461E
- OEM, board-level version available (MT309)



UNIQUE ATTRIBUTES

- SWaP: 3.2"(L) x 2.5"(W) x 1.0(H), .30 lbs
- Runs on 5VDC: Can be powered via powered USB

APPLICATIONS

- command post
- man packable
- UAV systems

MILTECH 309

DESCRIPTION

- Unmanaged, 8 port Ethernet Switch on Board (ESoB)
- 10 and 100 Mbps and at wire-speed across all ports
- Installed on system-level boards to provide full Ethernet connectivity
- Uses board-to-board connectors
- 2W of power and uses 5VDC



UNIQUE ATTRIBUTES

- 2.79" x 1.69" x .43
- 0.09 lbs
- MIL-STD-461E, MIL-STD-810F/G/GM and IP68 compliance when installed in an appropriate enclosure

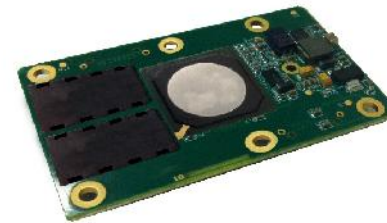
APPLICATIONS

- Small avionics or autonomous vehicles
- Sensor equipment

MILTECH 919

DESCRIPTION

- Fully managed, gigabit Ethernet Switch on Board (ESoB)
- 8 triple-speed (10/100/1000Mbps) ports + 1 100/1000 fiber port
- Adds switching capabilities to any OEM or system level platform
- Uses board-to-board connectors
- 8W of power and uses 6-36 VDC



UNIQUE ATTRIBUTES

- 10.7 cm x 4.8 cm x .5 cm
- 52 gm
- MILSTD-461E, MILSTD-810F/G/GM and IP68 compliance when installed in an appropriate enclosure

APPLICATIONS

SMALL AVIONICS OR AUTONOMOUS VEHICLES

SENSOR EQUIPMENT

MILTECH 904/918

DESCRIPTION

- Ultra-compact managed Gigabit Ethernet
- 4 or 8 triple-speed (10/100/1000Mbps) ports
- Virtual LANS (VLANS), traffic prioritization, and bandwidth aggregation, Spanning tree, etc
- MIL-STD-810F/G/M, 461E, 1275/704A



UNIQUE ATTRIBUTES

- SWaP : 3.93" x 3.5" x 1.42"
- Weight : 0.67 lbs
- 24VDC (18 ~ 36) Power

APPLICATIONS

- UAV, UGV
- Avionics
- Mobile equipment fielded in harsh environments

MILTECH 908MP / 948

DESCRIPTION

- 8 Port, triple speed (10/100/1000) switch
- Fully managed, Layer 2
- Sealed MIL-D-38999 circular connectors
- Compact form factor



UNIQUE ATTRIBUTES

- MIL-STD-810F/G/M, 461E, 1275, 704A
- IP67
- MT948 : Up to 2 x Fiber interfaces
- 8.3" x 5.4" x 1.8", 2.43 lbs

APPLICATIONS

- Ground vehicles
- Aerial pods

MILTECH 910POE

DESCRIPTION

- 8 10/100/1000 GbE port mil-std POE switch
- 60 W per port with a total PoE budget of 330 W
- Compliant with 802.3at and 802.3af on all 8 ports
- Fully managed with support for VLANs, traffic prioritization, and bandwidth aggregation, Spanning tree, etc



UNIQUE ATTRIBUTES

- Only product on the market that complies with 802.3at and af on all 8 ports.
- Largest PoE budget on the market
- Only PoE switch that is fully managed

APPLICATIONS

- Vectronic, ground vehicles and aerial
- Powers POE wifi access point, sensors, camera and mesh nodes that are COTS compliant PoE

MILTECH 912 (916 COMING SOON)

DESCRIPTION

- 12 & 16 Port, triple speed (10/100/1000) switch
- Fully managed, Layer 2
- Sealed MIL-D-38999 circular connectors
- Compact form factor



UNIQUE ATTRIBUTES

- MIL-STD-810F/G/M, 461E, 1275, 704A
- IP67
- MT948 : Up to 2 x Fiber interfaces
- 8.3" x 5.4" x 1.8", 2.43 lbs

APPLICATIONS

- Ground vehicles
- Aerial pods

MILTECH 9012 FAMILY

DESCRIPTION

- Compact light weight Layer 3 switch/router
- 12 port, 10/100/1000 ports
- L2/L3 network switching and routing capabilities: VLANS, IPv4/IPv6, traffic prioritization/QoS, bandwidth aggregation

FAMILY MEMBERS

- MT9012 : Base router
- MT9012X : Base router + Linux SBC
- MT9012C : Base router + Cisco ESR router

SPECS

- MIL-STD-810F/G/M, IP67
- MIL-STD-461E
- MIL-STD-1275 & MIL-STD-704A



- Size: 6.55" x 6.57" x 2.2"
- Weight: 2.09lbs – 3.5lbs
- Power: 24V (18~70V), 20W

MILTECH 9012 FAMILY (CONT'D)

MODEL	UNIQUE ATTRIBUTES	APPLICATIONS
MILTECH9012	<ul style="list-style-type: none">• Smallest SWaP in its class• Line rate dynamic routing	<ul style="list-style-type: none">• Unmanned Ground Vehicles (UGVs)• Unmanned Aerial Vehicles• Aerial Pods
MILTECH9012X	<ul style="list-style-type: none">• Combines routing and switching with the ability to run 3rd party applications in a small yet powerful package.	<ul style="list-style-type: none">• Onboard vehicle management• Proprietary routing systems• Robotics (JAUS, AEODRS)
MILTECH9012C	<ul style="list-style-type: none">• 2 - in - 1 : Line-rate routing/switching (MT9012) + Cisco-IOS industry-standard routing, security, and mobility protocols	<ul style="list-style-type: none">• Inter VLAN routing• Edge routing with Cisco, Up to 50 Mbps

MILTECH 908

DESCRIPTION

- 8 Port, triple speed (10/100/1000) switch
- Fully managed, Layer 2
- Sealed MIL-D-38999 circular connectors



UNIQUE ATTRIBUTES

- MIL-STD-810F/G/M, 461E, 1275, 704A
- IP67

APPLICATIONS

- Ground vehicles

MILTECH 610/708

DESCRIPTION

- 8 Port, 10/100 switch
- Unmanaged, Layer 2
- Sealed MIL-D-38999 circular connectors



UNIQUE ATTRIBUTES

- MIL-STD-810F/G/M, 461E, 1275, 704A
- IP67

APPLICATIONS

- Ground vehicles

MILTECH 1000

DESCRIPTION

- MIL-STD rugged, military-grade media converter
- 1 & 2 Gigabit port configurations
- Customizable fiber interfaces
- Optional 2 x POE Ports



UNIQUE ATTRIBUTES

- MT1000 : D38999 connector for fiber
- MT1002 : TFOCAII connector for fiber
- MIL-STD-810F/G/M, 461, 1275, 704A, IP67

APPLICATIONS

- Aircraft
- Battlefield comms
- Large marine vehicles

MILTECH 9028

DESCRIPTION

- Managed 28-Port Ethernet Router/Switch
- L2/L3 network switching and routing capabilities
- 24 triple-speed (10/100/1000Mbps) ports
- 4 10Gbps fiber optic ports
- 24VDC power



UNIQUE ATTRIBUTES

- Rack mountable
- Passive Cooling, IP67
- MIL-STD-810F/G/M, 461E, 1275/704A

APPLICATIONS

- Mobile platforms and shipboard systems that deal with high resolution video and other data-intensive signaling

PRODUCT DEMONSTRATION



<http://www.youtube.com/watch?v=RWCiiOFuVk8>

ABOUT TECHAYA

- **Focused on military, UAV, security, and surveillance markets**
- **Designed for rugged and unique situations involving extreme conditions**
- **Provides the innovation and flexibility essential to meet the requirements of these demanding sectors**
- **Unites leading-edge technology with reliability and advanced design, to lead the industry in SWaP-C**
- **Manufacturing facilities are IS9001:2000 and AS9100 certified**
- **All products are built according to J-STD-001 Class-3 standard**
- **Founded: Sep. 2003**
- **Headquarters, R&D and Business Center located in Israel**

ABOUT MILSOURCE

- **Exclusive US distributor for Techaya products**
- **20+ years of computer and networking experience**
- **Solely focus on bringing innovative, rugged, military-grade Ethernet communications solutions to military and Aerospace markets**
- **U.S. owned and operated**
- **D & B # 079392839**

CLIENT BASE

